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TITLE: Collaboration Around Research and Education (CARE) in Prostate Cancer

PRINCIPAL INVESTIGATOR: Marva M. Price

CONTRACTING ORGANIZATION: Duke University
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14. ABSTRACT Collaboration Around Research and Education (CARE) in Prostate Cancer is a partnership between two universities, Duke University School of Nursing and Bennett College for Women (Bennett), an historically black college or university (HBCU). Our goal is to build a collaborative relationship between Duke University and Bennett that brings together students and faculty mentors to facilitate opportunities for underrepresented minority students to learn about prostate cancer research. To accomplish this goal, we are capitalizing on the strengths of both universities to conduct a 10-week in residence didactic and hands-on training program to expose undergraduate students to prostate cancer prevention, detection and control methods, and basic science and clinical research. The objectives of the CARE program are to provide undergraduate science students with mentored experiential learning to (1) understand the burden of prostate cancer; (2) develop a beginning level of competence in technology resources for information gathering and data management in prostate cancer research; (3) obtain introductory knowledge about the research process (4) gain hands-on experience in clinical and basic science laboratory methods and research processes, and begin to understand community-based prostate cancer control activities; and (5) experience role model development for research and healthcare practice careers, and begin to build networks with researchers and health professionals in a Research I environment. Three undergraduate students participated in this 10-week prostate cancer research mentored experience.					
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Table of Contents

Introduction.....4

Body.....5

Key Research Accomplishments.....9

Reportable Outcomes.....10

Conclusions.....10

References.....12

Appendices.....17

Introduction

This is the third year progress report for Award W81XWH-07-1-0090. The report starts with an overview of the program, followed by a report of Statement of Work.

Collaboration Around Research And Education (CARE) is a partnership funded by the United States Department of Defense between two academic programs, Duke University School of Nursing (Duke) and Bennett College for Women (Bennett), an historically black college or university (HBCU). We have continued into the third year with success in our collaborative relationship between Duke and Bennett. We have matched underrepresented minority women students to faculty mentors to facilitate opportunities to study prostate cancer. CARE is marketed by Bennett to freshman and sophomore students who have identified a science major. Applications are accepted from a pool of students who have a 3.0 grade point average and interest in the program. Dr. Michael Cotton, Bennett College for Women, is the academic adviser and mentor responsible for the program on the Bennett campus. Following the summer internship on to graduation, selected students maintain weekly informal contact with Dr. Cotton during courses that Dr. Cotton teaches, and more formal monthly advising sessions with Dr. Cotton. Overall GPAs are reported to Dr. Price at Duke for each semester through graduation.

The students engaged in a concentrated mentored 10-week summer experience at Duke University School of Nursing. In addition to the summer concentration in research, we have provided continued academic support in the academic year to facilitate student success on to successful graduation with the intent that the students will enroll in graduate, medical, or professional education for a science or health science career. The 10-week summer program included didactic, observational, and experiential training and education. Mentoring for psychosocial support, academic success and career development, and role modeling were included and were strong features of this program.

This program provided students from a minority liberal arts college setting with mentored experiential learning to fulfill the program objectives. Accomplishments are detailed in the body of this report.

Body

In our third program year, three students completed the 10-week summer in-residence program. Dr. Stephen J. Freedland, Associate Professor, Division of Urologic Surgery, Dept of Surgery, Duke Prostate Center, and member of the Duke University Medical Center Cancer Prevention and Control Program, also faculty/clinician at the Veterans Administration Medical Center, invited the students to join his research laboratory and work with him and his urology research fellows. Student - mentor matches were as follows:

Shoteria M. Pearson, Junior, Biology major
Hometown: Baltimore, MD
Research Mentors: Lionel Banéz, MD and Stephen J. Freedland, MD

Taliah F. Glenn, Senior, Biology major
Hometown: Newark, NJ
Research Mentors: Daniel M. Moreira, MD, Jodi Antonelli, MD, and Stephen J. Freedland, MD

Tonisha Coburn, Junior, Biology major
Hometown: Turkey (the country)
Research Mentor: and Jean-Alfred Thomas, M.D and Stephen J. Freedland, MD

During the 10 weeks, the following activities occurred to meet program objectives and complete processes necessary for students to meet University, Medical Center, and Veterans Administration Hospital privacy and laboratory standards:

- Duke University identification badges and parking permits secured; tour of the Duke University campus, medical center, and nursing school.
- Tour of the medical center library.
- Completion of Safety, HIPPA, and Institutional Review Board (IRB) tutorial education modules prior to access to mentors' databases, and the post-test for each. The following modules were required:
 - Protecting Research Subjects
 - What Counts As Research with Human Subjects

In addition, 15 additional human subjects modules and post-tests were completed by each of the three students:

- Basic Institutional Review Board (IRB) Regulations and Review Process
- Belmont Report and CITI Course Introduction
- Completing the CITI GCP Course
- Conducting Clinical Trials of Medical Devices
- Conducting Investigator-Initiated Studies According to FDA Regulations and Good Clinical Practices
- Detection and Evaluation of Adverse Events
- FDA-Regulated Research

- History and Ethical Principles
- Informed Consent
- Investigator Obligations in FDA-Regulated Clinical Research
- Managing Investigational Agents According to GCP Requirements
- Overview of New Drug Development
- Reporting Serious Adverse Events
- Research with Protected Populations - Vulnerable Subjects: An Overview

Program objectives:

(1) Understand prostate cancer disease.

In weekly seminars, students read and discussed research literature from various scientific journals related to prostate cancer research across a number of disciplines, but also research related to development of their project which was based on their mentor's research. The students prepared abstracts, PowerPoint presentations, and posters for campus exhibits and for conferences. The presentations are being used for presentation opportunities at their college, at Duke, and national conferences.

- Students were required to attend the all expense paid one-day University of North Carolina Minority Health Conference, February 28, 2010, where poster displayed by students and oral presentations by professionals highlight the health of minorities. Two CARE students submitted abstracts and displayed their prostate cancer research.

(2) Develop a beginning level of competence in technological resources for information gathering and data management in prostate cancer research, and writing about and presenting their research.

Students were tutored by a medical center librarian to learn computer-based literature searches which were necessary for their prostate cancer summer project development.

- Students were tutored by a medical center librarian to learn how to conduct computer-based literature searches in scientific medical journals. Students learned to conduct searches based on the work of their mentors.
- Weekly two hour seminars for instruction on writing a research abstract in preparatory for writing an abstract for their own work. The seminar sessions also were used for trouble shooting professionalism issues such as student-mentor communication.
- Students were taught by the program epidemiologist/consultant on the use of data management software, such as Excel, and SPSS for organizing and analyzing their research statistics.
- Presentation of each student's project was done orally using PowerPoint slides, and with poster presentations:
 - Urology Grand Rounds (see details below); and on the final program day at in the school of nursing to an assembly of mentors, host and home faculty, family members, and friends, during a reception in celebration of the students' program achievements. Certificates of participation were presented to each of the students.

- Urology Grand Rounds: Students were invited by the urology division chief to be the featured Urology Grand Rounds presenters to the entire Duke Urology division. The students wrote abstracts and gave oral PowerPoint presentations on their research projects (these are listed as abstracts). This is very significant in that this is the first invitation to undergraduate students to conduct a full grand rounds seminar at Duke University Medical Center. The grand rounds had approximately 40 physicians in attendance, and approximately 10 additional urology personnel, along with the program PI, Dr. Price.

(3) Acquire an introduction to the research process through a mentored independent research project addressing an aspect of prostate cancer control, work with the mentors prostate cancer programs of research, and observations and interactions with other research faculty in the research institution.

- Students attended one Duke University Medical Center Institutional Review Board (IRB) meeting to observe a team of medical center IRB members present and evaluate new and renewal study proposals for research integrity and protection of patient's rights during clinical trials in cancer treatment. .
- On-site interaction with research faculty and consultant mentors in the host institution. Interaction and networking with peer scholars and faculty at interdepartmental and laboratory meetings, and full day clinic and inpatient shadowing, and attendance at weekly urology Grand Rounds.
- Direct mentorship by the faculty mentor over the 10 weeks. This included basic science laboratory procedures and experiments, data entry, and literature searches. The students shadowed for select sessions each week in the urology clinic; multidisciplinary prostate clinic where surgeons, radiologists, medical oncologists, and other cancer specialist meet together with the patient to discuss the next steps in treatment; observation in a urology clinic observing work ups and treatment with patients during and after diagnosis for prostate cancer and other urologic disorders; shadowing of nurses in the chemotherapy treatment room, and several theater observations of actual surgeries partnered with a urology fellow to interpret the surgical processes
- Observations on inpatient surgical oncology hospital units where the students shadowed a nurse for one day.

(4) Gained hands-on experience in community-based prostate cancer screening and detection activities.

Students worked in roles to help facilitate the clinic processes along with faculty with the Duke University Medical Center's Division of Urology, to conduct the annual free prostate cancer screening clinics during September 2009.

(5) Experience role model development for research and healthcare practice careers, and begin to build networks with researchers and health professionals in a Research I environment.

Students attended cultural programs during the 10 weeks at Duke University and in the city of Durham. During their weekend leisure, they interacted with undergraduate students from other university and school of nursing summer institutes.

The students wrote online journals twice a week using the electronic Blackboard site in the school of nursing.

At the end of the program, a paper-pencil evaluation was completed by each student; a face-to-face interview was conducted with each mentor.

On September 21 and 22, 2009, the students gained hands-on experience in community-based prostate cancer control activities in Durham, NC. The students assisted with the registration, clinic flow, and consenting process in two day-long prostate cancer screening clinics.

The students attended and presented their posters at the one-day 31st Annual Minority Health Conference sponsored by the University of North Carolina School of Public Health, Minority Health Caucus, Chapel Hill, N.C., February 28, 2009. In addition to the scientific presentations at this conference, students networked with graduate faculty and graduate students from various graduate and professional programs from the eastern United States.

Statement of Work

Years 3

Task 1: Bennett College: Plan for marketing CARE program to Bennett Biology majors and students with sufficient science courses needed to participate in the program

Months 1-3 (*January, February, March*)

- a. Developed recruitment, application, and interview process.
- b. Minimal qualifications: minority student, student availability for summer program, quality of the program interest essay, and 3.0 minimal Grade Point Average (GPA). From the applicant pool, eight students were selected. The final selection included the four top applicants with four remaining as alternates.
- c. Interviews conducted by the Duke Program Director and Bennett Faculty Adviser.
- d. A reception for selected students was held at Bennett; reception was attended by the students, friends, faculty and administrators, along with Dr. Price and the summer program research assistant, Cheryl Broderick, MS in Chemistry.
- e. Payroll process initiated with Bennett for summer stipends to be direct deposited in the students' personal checking accounts on a biweekly basis.
- f. Planned monthly mentoring contact schedule with Dr. Cotton for fall and spring semesters, who maintained mentoring session with students at least once each month during each semester.

Task 2: Months 4-5 (April, May)

- a. Bennett: Planned ongoing Bennett mentoring schedule.

- b. Bennett: Checked end of year GPAs for applicants.
- c. DUKE: Met with mentors to refine schedule for 10-week summer program

Task 3: DUKE: Months 6-9 (June, July, August, September)

- a. Conducted 10-week summer program. *One student left the program for medical reasons. None of the four alternates was available to fill in as they had taken other competitive summer opportunities.*
- b. Abstract and PowerPoint preparations ongoing through the 10 weeks.
- c. Sought opportunities for ongoing grand rounds, medical center and nursing special seminars and presentations, workshop, and seminar opportunities for student attendance
- d. Ongoing meetings held with grant staff (research assistant and PhD epidemiology consultant)
- e. Conducted Mentor and student evaluations and wrap-up
- f. Program administration tasks
- g. Sought presentation and paper opportunities for students during the 2009-2010 academic year

Task 4: Bennett: (September) Coordinate student volunteer activity for September prostate cancer education month. Students assisted with the facilitation of the two day prostate screening at Duke and at a local inner city health center

Task 5: Months 10-12 (October, November, December)

- a. Bennett: Check GPA at the end of fall semester-need to maintain 3.0 overall GPA throughout project. Students maintained their GPAs successfully.
- b. Bennett: Year 3 - Facilitate registration for the University of North Carolina Minority Health Conference for February 28, 2010.
- c. Bennett: Facilitate continued weekly/monthly mentorship

Task 6: DUKE/Bennett: Preparation for poster presentations at Minority Health Conference, University of North Carolina, Chapel Hill

Task 7: DUKE: Interim program evaluation and submission to DoD
Month 12

Key Research Accomplishments:

The students developed abstracts (see appendices for full abstracts) based on their summer research and discussed their presentations at the Duke University Medical Center Division of Urology Grand Rounds and at the School of Nursing for the final day of the summer program:

Shoteria M. Pearson - Does Alcohol Consumption Increase the Risk for Being Diagnosed with Prostate Cancer?

Taliah F. Glenn - The Effect of Smoking History on Time from Surgery to Biochemical

Recurrence in Patients with Prostate Cancer treated with Radical Prostatectomy

Tonisha Coburn - The Differential Effects of Carbohydrates. Calories upon Prostate Cancer Tumor Growth in a Xenograft Murine Model

Reportable Outcomes:

Successful completion of the summer program for three students; students prepared abstracts based on their summer laboratory experiences and presented orally and conducted poster discussions over the course of the summer and academic year. Students maintained a minimum of a 3.0 GPA and are continuing in their respective pre-med majors with high interest in medical school or other graduate and professional science and research programs.

Conclusions

Program Evaluation:

Year 3 of this program was highly successful. Three African-American women students from a small private HBCU, with a student population less than 300 students, had an advanced beginning level of learning experience in basic and clinical prostate cancer research. Students' evaluation feedback indicated that they had been well-exposed to laboratory and clinical research, an area they had not been involved in before. They felt that they found a whole new body of knowledge applicable in improving their understanding of research in their academic programs and future scientific careers.

These students were engaged in a concentrated 10-week mentored summer research program. All of the students were at similar levels of unexposure to cancer research and all had the potential and the opportunity to gain a great deal from the internship. All of the experiences and activities were completely new for the participants. They had no research training; nor had they been exposed to understanding the prostate function or disease state. Thus, this program was able to provide a learning experience and address student needs that may not be addressed elsewhere or at any other time in their academic career. Furthermore, we were very successful in meeting the proposed goals of the program and in some areas even reaching beyond our predetermined expectations, particularly with the amount of materials on the prostate and research that the students were able to learn and understand, along with their individual project development which resulted in abstract submissions for conferences. During their final presentations students addressed approximately 50 in attendance at the Urology Grand Rounds, and on the following day presented to an audience of approximately 40 Duke faculty and staff, community members and family, engaging in a discussion of the complex physiology, basic science, clinical applications, research methodology, and prostate cancer prevention and control.

Unexpected Difficulties Encountered:

One student left the program in the second week due to health problems.

So What

We believe that we have an excellent undergraduate research training model for collaboration between small private liberal arts HBCU with a very strong science curriculum. We engaged in a program that has proven to be exemplary. The PI will continue to mentor these students through their college graduation and will serve as a resource as they seek graduate and professional school admission or careers in science, healthcare, or research with a commitment to cancer research.

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Appendices

- PI Curriculum Vitae
- Meeting Abstracts
- Study Personnel
- PI Contact Information

**DUKE UNIVERSITY MEDICAL CENTER
CURRICULUM VITAE**

Marva L. Mizell Price, DrPH, MPH, FNP, FAANP, FAAN
March 2010

Primary academic appointment: School of Nursing

Secondary appointment (if any) – (department):

Full Member, Duke Comprehensive Cancer Prevention, Detection & Control Research Program, appointed 2003 to present, reviewed 2008.

The program is comprised of 41 members with a strong portfolio of basic and clinical research in prevention/early detection, cancer patients and survivors, and in epidemiology and epigenetics.

Present academic rank and title (if any): Associate Clinical Professor

Date and rank of first Duke Faculty appointment:

September 1996 Assistant Clinical Professor; July 1, 2001 Assistant Professor; September 1, 2009 Associate Clinical Professor

Nursing Licensure: Registered Nurse

Date of License (Month/Day/Year): # August 1972; renewal – November 25, 2010

Specialty certification(s) and dates (Month/Day/Year):

St. Margaret's Hospital, Boston: Natural Family Planning Instructor, 1988.

American Nurses Credentialing Center (ANCC): Family Nurse Practitioner, Certification #0004299-22 issued 1982; recertified 2007-3/31/2012.

North Carolina Board of Nursing: #049064 North Carolina Registered Nurse Renewal 11/25/2009

Family Nurse Practitioner, Initial Approval 11/1974; Reapproval 11/25/2009.

Recredentialed by Duke University Medical Center Credentialing Service, 2009.

Date of birth: 11-25 Place: Columbia, N.C. USA

Citizen of: USA

Visa status (if applicable): N/A

<u>Education</u>	<u>Institution</u>	<u>Date (Year)</u>	<u>Degree</u>
High School	Tyrrell High School Columbia, NC	1968	Diploma
College	School of Nursing North Carolina Agricultural & Technical State University Greensboro, NC	1972	Bachelor of Science in Nursing (B.S.N.)
Graduate or Professional School	School of Public Health, Department of Maternal and Child Health, University of North Carolina, Chapel Hill, NC	1974	Master of Public Health (M.P.H.) in Maternal Child Health
	School of Nursing University of North Carolina, Chapel Hill, NC	1974	Family Nurse Practitioner Certificate
	School of Nursing University of Washington, Seattle, WA Child Development and Mental Retardation Center	1979	Post-Masters Certificate in Developmental Pediatrics
	School of Nursing Emory University Atlanta, GA Regional Training Center for Family Planning	1983	Contraception for the Family/Adult Nurse Practitioner 80 hour course
	School of Public Health, Department of Maternal and Child Health and Program in Public Health Leadership, University of North Carolina, Chapel Hill, NC	1997	Doctor of Public Health (DrPH) in Maternal and Child Health and Public Health Leadership
		1995-1997	Pre-doctoral Fellow, Cancer Prevention and Detection, University of North Carolina Lineberger Comprehensive Cancer Center, Chapel Hill

Scholarly Societies:

1973	Inducted, Delta Omega Honor Society in Public Health
1974	Inducted, Sigma Theta Tau, Alpha Alpha Chapter, University of North Carolina, International Honor Society in Nursing
1978-1980	Junior and Senior student counselor
1996	Charter Member, Sigma Theta Tau, Mu Tau Chapter, North Carolina Agricultural and Technical University, International Honor Society in Nursing
2002	Inducted, Fellow of the American Academy of Nursing

2007 Inducted, Fellow of the American Academy of Nurse Practitioners

Professional training and academic career:

<u>Institution</u>	<u>Position/Title</u>	<u>Date</u>
Post-Baccalaureate:		
Annie Penn Memorial Hospital Reidsville, NC	Registered Nurse Rotated on all services in a 120 bed community hospital (Medical/surgical, ER, Delivery Room, Pediatrics, Recovery Room)	1972-1974
Post-Master's:		
University of North Carolina, School of Public Health, Department of Public Health Nursing for Orange Chatham Comprehensive Health Services, Chapel Hill, NC	Family Nurse Practitioner	1973-1974
University of North Carolina Employees Health Services, Chapel Hill, NC	Family Nurse Practitioner	1974-1976
University of North Carolina, Chapel Hill, NC Division for Disorders of Development and Learning (currently Center for Development and Learning)	Family Nurse Practitioner	1976-1982
State of North Carolina Department of Health and Human Services, Winston Salem, NC & Raleigh, NC	Family Nurse Practitioner and Nursing Consultant, Family Planning and Women's Health, Division of Maternal Child Health	1982-1991
Duke University Medical Center, Durham, NC Department of Obstetrics and Gynecology, Division of GYN Oncology	Family Nurse Practitioner and Program Coordinator, Women's Cancer Screening Program & Cervical Dysplasia Private Clinic	1991-1994
Chatham County Health Department Pittsboro, NC	Interim Health Director, Chief Executive Officer	1992
Kaiser Permanente Durham-Chapel Hill Office, NC	Family Nurse Practitioner	1994
Randolph County Health Department, Family Planning Clinic, Asheboro, NC	Family Nurse Practitioner	1996
Post-Doctorate:		
Duke University School of Nursing, Durham, NC	Assistant Clinical Professor	1996-2001
	Assistant Professor	2001-2009
Family Nurse Practitioner Program Program/Specialty Director	Associate Clinical Professor	2009-Present May 2002-2007

Publications:

**1. Refereed journals:
Published**

1.	Price, M.M. (1980). Critique of the Milani-Comparetti Motor Development Screening Test. <u>Physical And Occupational Therapy In Pediatrics</u> , 1 (1), 59-68.
2.	Smith, E.M., Phillips, J.M., & Price, M.M. (2001). Screening and early detection among ethnic minority women. <u>Seminars in Oncology Nursing</u> , 17 (3), 159-170.
3.	Van Buren, K.G. & Price, M.M. (2002). Recognizing Obstructive Sleep Apnea in Children. <u>The American Journal for Nurse Practitioners</u> , 6(7), 9-17.
4.	Brown, S.M. & Price, M.M. (2003). Man with swollen lips and tongue. <u>Clinician Reviews</u> , 13 (4): 81-86. (<i>Ace-Inhibitors for Hypertension</i>)
5.	National Organization of Nurse Practitioner Faculties (NONPF) Practice Doctorate Task Force: Marion, L., Viens, D., O'Sullivan, A.L., Crabtree, K., Fontana, S. Price, M. (2003). The Practice Doctorate in Nursing: Future or Fringe? NONPF Practice Doctorate Task Force. <u>Medscape</u> . Topics in Advanced Practice Nursing eJournal 3 (2), 2003. © 2003 Medscape.
6.	Marion, L., O'Sullivan, A.L. Crabtree, M.K., Price, M. Fontana, S. (2005). Curriculum Models For The Practice Doctorates In Nursing. <u>Medscape</u> . Topics in Advanced Practice Nursing eJournal 5 (1), 2005. © 2005 Medscape.
7.	Price, M.M. , Hamilton, R.J., Robertson, C.N., Butts, M.C., Freedland, S.J. (2008). Body Mass Index, Prostate-Specific Antigen, and Digital Rectal Examination Findings Among Participants in a Prostate Cancer Screening Clinic. <u>Urology</u> . 2008 May; 71(5):787-91. Epub 2008 Feb 11. PMID: 18267334.
8.	Schroek, F.R., Krupski, T. L., Sun, L., Albala, D.M., Price, M. M. , Polascik T.J., Robertson, C.N. Robertson, Tewari, A.K, and Moul, J.W. "Satisfaction and Regret after Open Retropubic or Robot-Assisted Laparoscopic Radical Prostatectomy". <u>Urology</u> . 2008 Oct; 54(4):785-93. Epub 2008 Jun 23. PMID: 18585849.
9.	Caire, A.A., Sun, L., Robertson, C.N., Polascik, T.J., Maloney, K.E., George, D.J., Price, M.M. , Stackhouse, D.A., Lack, B.D., Albala, D.M. and Moul, J.W. "Public Survey And Survival Data Do Not Support Recommendations To Discontinue Psa Screening In Men At Age 75". <u>Urology</u> . 2009, Oct 6. [Epub ahead of print]. PMID: 19815259.
10.	Kimura, M., Tsivian, M., Mouraviev, V., Mayes, J., Price, M. , Bannister, M., Madden, J., Wong, T., and Polascik, T. "The Utilization of 111Indium-Capromab Pendetide SPECT-CT for Detecting Seminal Vesicle Invasion with Recurrent Prostate Cancer after Primary In situ Therapy". <u>Int J Urol</u> . 2009 Dec;16(12):971-5. Epub.
11.	Tsivian, M., Wright, T., Price, M. , Mouraviev, V., Madden, J.F., Mayes, J.M., Kimura, M., Wong, T., & Polascik, T.J. "111-In-Capromab Pendetide Imaging Using Hybrid Gamma Camera-Computer Tomography Technology Is Not Reliable In Detecting Seminal Vesicle Invasion In Patients With Prostate Cancer". <u>Urologic Oncology: Seminars and Original Investigations</u> . In Press.

**2. Non-refereed publications:
Published**

1.	Price, M.M. (1980). Why do they suck their thumbs? <u>Baby Talk</u> , 46 (5), 28-29.
2.	Price, M.M. (1982), Thumbsucking, <u>Pediatric Currents</u> , 31 (1).
3.	Price, M.M. (1985, April 7; 1980, October 5). Thumb, finger sucking common behavior in caring for kids, <u>Chapel Hill Newspaper</u> .
4.	Price, M.M. (1986). Nurse practitioners are also caught in national malpractice insurance crunch, <u>Contraceptive Technology Update</u> , American Health Consultants, Atlanta, 7 (11), 138-139.
5.	Price, M.M. (1987). OC user's recurrent candidiasis may require multiple treatment strategies, <u>Contraceptive Technology Update</u> , American Health Consultants, Atlanta, 8 (1), 9-11.
6.	Price, M.M. (1987). Nurse practitioner has complex role in managing high-cholesterol patients,

	<u>Contraceptive Technology Update</u> , American Health Consultants, Atlanta, 8 (4), 49-50.
7.	Price, M.M. (1987). Help long-term OC users manage healthy, gradual return to fertility, <u>Contraceptive Technology Update</u> , American Health Consultants, Atlanta, 8 (6), 82-83.
8.	Price, M.M. (1987). Try varied approaches to encourage our OC patients to stop smoking, <u>Contraceptive Technology Update</u> , American Health Consultants, Atlanta, 8 (8), 101-103.
9.	Price, M.M. (1987). North Carolina's NFP initiative is effective and well received, <u>Contraceptive Technology Update</u> , American Health Consultants, Atlanta, 8 (10), 133-134.
10.	Price, M.M. (1987). Physically, mentally disabled teens require special contraceptive care, <u>Contraceptive Technology Update</u> , American Health Consultants, Atlanta, 8 (12), 154-156.
11.	Price M.M. (1988). Find alternatives for patients using 80 to100 mcg estrogen OCs. <u>Contraceptive Technology Update</u> , Consultants, Atlanta, 9 (7): 86-87.
12.	Price, M.M. & Price, L.N. (2002). Concerns of white and African American consumers about colon cancer screening. In M. Kowalski (Ed.). <u>Transcultural Nursing Special Interest Newsletter – Oncology Nursing Society</u> , 12 (1), 1-3.
13.	Price, M.M. & Price, L.N. (2002). Concerns of white and African American consumers about colon cancer screening. <u>Prevention and Detection Special Interest Newsletter – Oncology Nursing Society</u> , 12 (3), 1-3.
14.	Price, M., Flagler, S., Honig J., Huffstutler, S., Lock, S., and Stegbauer, C. (2006). <u>Recommendations for Faculty Qualifications, Faculty Development, and Student Admissions Criteria</u> . Retrieved October 9, 2006, from the National Organization of Nurse Practitioner Faculties Practice Doctorate Resource Center Web site: http://www.nonpf.com/NONPF2005/PracticeDoctorateResourceCenter/PDsubcommittee1.htm & http://www.nonpf.com/NONPF2005/PracticeDoctorateResourceCenter/PDResourceCenter.htm

3. Chapters in books:

1.	Price, M.M. (1980). Special Populations Sexual Abuse of the Developmentally Disabled. In D. Kay, <u>Leadership Training Workshops</u> . Bethesda, MD: National Institute of Mental Health, National Center for Prevention and Control of Rape. Training Grant No. T31MH15664.
2.	Price, M.M. (1985). Nursing Care of the Child With A Mental Deficiency. In S.R. Mott, N.S. Fazekas, & S.R. James, (Eds.), <u>Nursing Care of Children and Families</u> , pp. 755-783, Menlo Park, CA: Addison-Wesley Publishing Co.
3.	Phillips, J. Price, M.M. (2002). "Breast Cancer Prevention and Detection: Past Progress and Future Directions". In K. Jennings-Dozier & S. Mahon, S. (Eds.), <u>Cancer Prevention, Detection and Control: A Nursing Perspective</u> . Pittsburgh, PA: Oncology Nursing Press.
4.	Price, M.M. (2002). Health Promotion with African American women. In C.C. Clark, <u>Health Promotion in Communities: Holistic and Wellness Approaches</u> , pp. 355-381, New York: Springer Publishing Company.

4. Books: N/A

5. Non-authored publications (faculty member formally acknowledged in the publication for her contributions):

1.	Creative Care Unit: parental guidance, (1979). <u>American Journal of Nursing</u> , 79 (4): 673.
2.	Nurses, physicians prefer different postpartum prescriptions practices, <u>Contraceptive Technology Update</u> , (1986). American Health Consultants, Atlanta. 7 (9).
3.	Public Sector NFP Program, (1988). <u>The NFP Reader</u> , 5 (1), Bethesda, MD: KM Associates.
4.	Asefa, S. "Promoting health in the african american community, cervical cancer", in Promoting Health in the African American Community (PHAAC). In partial fulfillment of requirements for a Master's of Public Health Degree, Department of Health Behavior and Health Education, School of Public Health, University of North Carolina at Chapel Hill, August 8, 1997. http://64.233.169.104/search?q=cache:3duPBGMvJskJ:unchsl3.depts.unc.edu/cdpapers/Asefa.pdf+marva+price&hl=en&ct=clnk&cd=43&gl=us .
5.	Reverence. Newsletter of the Albert Schweitzer Fellowship. p. 5, March 2001. http://www.schweitzerfellowship.org/resources/pdf/newsletter4-2.pdf .
6.	United States Department of Defense Annual Report, FY2002. Encouraging research on prostate cancer disparity. p. 4. http://cdmrp.army.mil/annreports/2002annrep/pdf/4_pcrp.pdf .
7.	Making a Difference in London. Screening. International ICNN Cancer Nursing News. Vol. 14, #3, 2002. http://www.isncc.org/files/PDF/14-3web.pdf

8.	Malecare. Free screenings help duke researchers study african americans' reluctance to be tested for prostate cancer. 9/19/2003. http://www.malecare.com/african_american_prostate_cancer_page_61.htm
9.	Key to detecting cancer In men. Duke Center for Integrative Medicine (DCIM). The Herald Sun, Durham, N.C. August 7, 2003.
10.	Cancer seminars to open today. The Herald Sun, Durham, N.C. January 30, 2004.
11.	EHD puts its best foot forward for cohort 5 finalists. Eliminating Health Disparities Program Newsletter. Saint Louis University. Vol. 1, Issue 3, 2004. http://ehd.wustl.edu/newsletter/06.01.04/06news1.htm
12.	Storming Media. Pentagon Reports. Increasing sustained participation in free mass prostate cancer screening clinics. May 2005. http://www.stormingmedia.us/36/3623/A362344.html .
13.	Pint-Size Clinics Take Root at CVS. The Herald Sun, Durham, N.C. October 31, 2005. http://www.redorbit.com/news/health/290670/pintsize_clinics_take_root_at_cvs/index.html
14.	Duke Chronicle. Duke center for integrative medicine (DCIM) focuses on holistic medicine. September 29, 2005. http://media.www.dukechronicle.com/media/storage/paper884/news/2005/09/29/News/Dcim-Focuses.On.Holistic.Medicine-1474488.shtml .
15.	Top Company Profiles. Carolina Meadows, Inc. Board members. Condé Nast. Portfolio.com. 2007. http://www.portfolio.com/resources/company-profiles/Carolina-Meadows-Inc-575490
16.	Prostate Health: A journal guide. Detection. Duke Prostate Center. http://www.dukehealth.org/Services/ProstateCancer/index/Prostate%20Health%20--%20A%20Survival%20Guide.pdf
17.	Noteworthy. Reflections on nursing leadership. Honor Society of Nursing, Sigma Theta Tau International. http://nursingsociety.org/RNL/3Q_2007/departments/noteworthy3.html
18.	Health Articles: First Hand: Marva Price, DrPH, RN, FAAN, Family Nurse Practitioner and Director, Family Nurse Practitioner Specialty at the Duke University School of Nursing, from Cancer Center Notes, Duke Health.Org., 4/10/2007.
19.	Tuskegee University. Minority researchers receive AACR awards. February 19, 2008. http://www.tuskegee.edu/Global/story.asp?S=2757048 .
20.	DukeHealth.Org. Overweight and obese men have lower PSA values, even before they get prostate cancer. Feb. 19, 2008. http://www.dukehealth.org/HealthLibrary/News/10246 .
21.	Physorg.com. SCIENCE:PHYSICS:TECH:NANO:NEWS. Overweight and obese men have lower PSA values, even before they get prostate cancer. Published: 11:58 EST, February 19, 2008. http://www.physorg.com/news122644683.html .
22.	Bio-Medicine. Overweight and obese men have lower PSA values, even before they get prostate cancer. February 19, 2008. http://www.bio-medicine.org/medicine-news-1/Overweight-and-obese-men-have-lower-PSA-values--even-before-they-get-prostate-cancer-12243-1/ .
23.	Medpage Today. PSA levels deceptively low in obese men. February 19, 2008. http://www.medpagetoday.com/Urology/ProstateCancer/8422 .
24.	Bio-Medicine. Overweight and obese men have lower PSA values, even before they get prostate cancer, February, 19, 2008. http://www.bio-medicine.org/medicine-news-1/Overweight-and-obese-men-have-lower-PSA-values--even-before-they-get-prostate-cancer-12243-1/ .
25.	Science Centric. Overweight and obese men have lower PSA values, even before they get prostate cancer. February 19, 2008. http://www.sciencecentric.com/news/article.php?q=08021919 .
26.	The Times of India, Gurgaon, Haryana. Obese men may have low PSA values. February 20, 2008. http://www1.timesofindia.indiatimes.com/articleshow/2797786.cms .
27.	Thaindian News, Bangkok Thailand. Obesity in men linked to lower PSA values. February 20, 2008. http://www.thaindian.com/newsportal/health/obesity-in-men-linked-to-lower-psa-values_10019289.html .
28.	Science Daily. Science News. Overweight And Obese Men Have Lower PSA Values, Even Before They Get Prostate Cancer. Feb. 20, 2008. http://www.sciencedaily.com/releases/2008/02/080219115156.htm .
29.	AbhayJere.com. India is World's New BioSciences Hub. Overweight And Obese Men Have Lower PSA Values, Even Before They Get Prostate Cancer. February 20, 2008. http://abhayjere.com/sciencenews_2008.aspx
30.	Medical News Today. Lower PSA Values Found In Overweight And Obese Men, Even Before Diagnosis Of Prostate Cancer, 20 Feb 2008 - 3:00 PDT.
31.	Testicare. Prostate Cancer-PSA news. Overweight And Obese Men Have Lower PSA Values, Even Before They Get Prostate Cancer. February 20, 2008.

32.	Online Focus. Gesundheit. Prostatakrebs. Fett verfälscht Blutwert. February 20, 2008. http://www.focus.de/gesundheit/ratgeber/krebs/news/prostatakrebs_aid_262109.html .
33.	TopNews Health. Obesity in men linked to lower PSA values. February 20, 2008. http://www.topnews.in/health/obesity-men-linked-lower-psa-values-21129 .
34.	Urología. Los niveles de PSA son menores en los hombres con obesidad. February 21, 2008. http://www.diariomedico.com/edicion/diario_medico/especialidades/urologia/es/desarrollo/1091936.html .
35.	Innovations Report, Forum für Wissenschaft, Industrie und Wirtschaft. Overweight and obese men have lower PSA values, even before they get prostate cancer. 21.02.2008.
36.	MedicExchange.Com. Overweight and obese men have lower PSA values, even before they get prostate cancer. February 25, 2008. http://www.medicexchange.com/RIS-PACS/news.aspx/12508/Overweight-and-obese-men-have-lower-PSA-values--even-before-they-get-prostate-cancer .
37.	Medscape Today. Medscape Medical News. Obesity linked with lower PSA Levels, according to multiethnic cohort. February 25, 2008. http://doctor.medscape.com/viewarticle/570593 .
38.	The "New" Prostate Cancer InfoLink, a service of Prostate Cancer International. Satisfaction and regret after two types of radical prostatectomy. Posted on July 8, 2008 by E. Michael D. ("Mike") Scott. http://prostatecancerinfolink.net/2008/07/08/satisfaction-and-regret-after-two-types-of-radical-prostatectomy/ .
39.	<u>Technorati, Inc. Technorati, Japan. Kevin, M.D. - Medical Weblog. Reactions to story from Well - Tara Parker-Pope - Health - New York Times Blog, Regrets after prostate surgery. August 26, 2008.</u> http://technorati.com/posts/6VTj7VSvaFNXAgEZ6r36BfJyZ74vqYnK8kejZPRrLt0%3D .
40.	Propeller, Regrets after prostate surgery. http://www.propeller.com/story/2008/08/27/regrets-after-prostate-surgery/
41.	Topix, Durham, N.C. Regrets after prostate surgery. Published: Wednesday, August 27, 2008 at 9:00 a.m. Last Modified: Thursday, August 28, 2008 at 4:25 a.m. http://www.topix.com/health/prostate-cancer/2008/08/regrets-after-prostate-surgery .
42.	vBulletin®, Regrets after prostate surgery (NYT). 09-11-2008, 09:34 PM http://www.eunuch.org/vbulletin/showthread.php?s=65edcc9fc11a0ec030c87c270d6d3a05&p=111186#post111186 .
43.	<u>The New York Times, Well, On Health by Tara Parker-Pope, Regrets after prostate surgery.</u> Sunday, September 21, 2008. http://well.blogs.nytimes.com/2008/08/27/regrets-after-prostate-surgery/ .
44.	Menon, M. & Bhandari, M. Unhappy Patients: Musings of two surgical nihilists. <i>European Urology</i> , 54 (4), 723 – 725. 2008. http://linkinghub.elsevier.com/retrieve/pii/S0302283808008907 .
45.	North Carolina Nurses Association. NCNA members describe why they are members. 2008. http://www.ncnurses.org/NPCouncil/Nurse_Practitioner_Members_Quote.pdf

6. Other:

a. Published scientific reviews (for mass distribution):

Book Reviews:

1.	Price, M.M. (1983). Effectiveness of pediatric primary care. J. S. O'Shea & E.W. Collins, (Eds.), in <i>Physical And Occupational Therapy in Pediatrics</i> .
2.	Price M.M. (1986). Diagnosis and management of the hospitalized child. H.B. Levy, S.H. Sheldon, & R.F. Sulayman (Eds.), in <i>Physical and Occupational Therapy in Pediatrics</i> , 6 (1), 109-110.
3.	Lederer, et al. (1986). <i>Care planning pocket guide</i> . Ed 2. Menlo Park, CA: Addison-Wesley.
4.	Price, M.M. (1986). Minimizing high-risk parenting. R.A. Hoekelman & P.A. Media (Eds.), in <i>Physical and Occupational Therapy In Pediatrics</i> , 6 (2), 125-126.
5.	Price, M.M. (1987). Chronically ill children and their families. N. Hobbs, J.M. Perrin, & H.T. Ireys (Eds.), in <i>Physical And Occupational Therapy In Pediatrics</i> , 7 (3), 107-108.
6.	Price, M. M. (1988). Children with handicaps: A medical primer. Ed 2. M.L. Batshaw & Y.M. Perret (Eds.), in <i>Physical And Occupational Therapy in Pediatrics</i> , 8 (1), 117-118.
7.	Price, M.M. (1989). The invulnerable child. E.J. Anthony & B.J. Cohler (Eds.), in <i>Physical And Occupational Therapy In Pediatrics</i> , 9 (3), 160-161.
8.	Scoggin, J. & Morgan, G. (2001). <i>Practice guidelines for obstetrics and gynecology</i> . Baltimore: Lippincott, Williams & Wilkins.

b. Selected Abstracts:

1.	Price, M.M. (1986, May). "Nurse Practitioner Prescribing Practices". Paper presented at the Annual Conference on Women's Health for Nurse Practitioners, Emory University, Atlanta, GA.
2.	Price, M.M. (1988, May). "Helping Family Planning Patients Stop Smoking". Paper presented at the Annual Conference on Women's Health for Nurse Practitioners, Emory University, Atlanta, GA.
3.	Price, M.M. (1989, May). "Is There an Ideal Contraceptive for the Breastfeeding Woman?" Paper presented at the Annual Perinatal Nursing Conference, Duke University Medical Center, Durham, NC.
4.	Price, M.M. (1993, February). "Cancer Prevention and Early Detection – Changing Lifestyles in Vulnerable Populations". Paper presented at the Health Promotion Disease Prevention Nursing Conference, Friday Conference Center, University of North Carolina School of Nursing, Chapel Hill, NC.
5.	Price, M.M. (1994, April). "Cancers That Worry Women the Most and Screening Dilemmas". Paper presented at the Annual Spring Symposium for Primary Care Nurse Practitioners, Charlotte, NC.
6.	Price, M.M. (1994, October). "Developing and Using Computer Generated Slides for Oral Presentations". Paper presented at the Dissemination Workshop during the Oncology Nurses Symposium on Cancer in African Americans, Atlanta, GA.
7.	Price, M.M. (1994, October 28-30). "Living with Genital Herpes: Counseling the Patient". Paper presented and Seminar Moderator for the Burroughs Wellcome Pharmaceutical Corporation Nursing Conference on Genital Herpes, Research Triangle Park, NC.
8.	Price, M.M. (1995, February, Philadelphia; 1995, April, Miami; and 1995, March, Washington, DC). "Breast Health". Papers presented at the National Black Nurses Association Regional Conferences.
9.	Price, M.M. (1995, August). "Gynecologic Cancers-Cervical Cancer". Paper presented at the National Black Nurses Association National Conference, Washington, DC.
10.	Price, M.M. (1996, August). "Cervical Cancer". Paper presented at the Oncology Nursing Society Post-Conference Seminar at the Annual Meeting of the National Black Nurses Association, Chicago, IL.
11.	Price, M.M. (1997, May). "What Your Mother Needs to Know about Breast Health. Paper presented at the 9 th Annual National Black Graduate Student Conference, Research Triangle Park, NC.
12.	Price, M.M. (1997, August). "Cervical Cancer". Paper presented at the North Carolina Baptist Ushers Conference on Cancer Prevention, UNC Lineberger Comprehensive Cancer Center and the UNC School of Public Health Summer Public Health Conference, Raleigh, NC.
13.	Price, M.M. (1997, August). "Intergenerational Influences On Cervical Cancer Screening". Poster Session presented at the Women's Health Issues – A Global Nursing Perspective, University of Cincinnati, OH, held in St. Thomas, Virgin Islands.
14.	Price, M.M. (1997, December). Generational Influences On Cervical Cancer Screening And The Capacity Of The Public Health System To Assure Responsive Services. <u>Dissertation Abstracts International</u> , University of North Carolina, Chapel Hill. Microfiche No. W4.P9462. 1997.
15.	Price, M.M. (1998, August). "Intergenerational Influences on Cervical Cancer Screening". Paper presented at the 11 th Union of International Cancer Congress, Rio de Janeiro, Brazil.
16.	Price, M.M. (1999, April). Enhancing Nurse Educators' Knowledge Base To Teach Their Students Cancer Prevention And Early Detection in African Americans; and Using The Albert Schweitzer Fellowship Program to Foster Cross-Cultural Experiences for Nurse Practitioner Students. Symposium conducted at the annual meeting of the National Organization of Nurse Practitioner Faculties (NONPF), San Francisco, CA.
17.	Price, M.M. (1999, November). "African American Women's Concerns about Cervical Cancer Screening". Paper presented at the American Public Health Association Annual Convention, Chicago, IL.
18.	Price, M.M. (2000, February). "African American Women's Concerns about Cervical Cancer Screening". Paper presented at the 7 th Biennial Symposium on Minorities, The Medically Underserved & Cancer, Addressing the Unequal Burden of Cancer, Washington, DC. Published Abstract p. 41.
19.	Price, M.M. (2000, March). "African American Women's Concerns About Cervical Cancer Screening". Paper presented at the Howard University School of Nursing Research Day, Washington, DC.
20.	Price, M.M. (2000, April). "Creating a Faculty Research Opportunity with a Community Prostate Cancer Screening Program". Paper presented at the National Organization of Nurse Practitioner Faculties (NONPF) 26 th Annual Conference, Washington, DC.
21.	Price, M.M. (2000, August 3; July 30). "Follow-up of Men Who Participate in a Free Community Day Prostate Cancer Screening Clinic". Poster Session presented at the 11 th International Conference on Cancer

	Nursing-Building The Future, Oslo, Norway.
22.	Price, M.M. (2000, August). "Follow-up of Men who Participate in a Free Community Day Prostate Cancer Screening Clinic" and "Generational Influences on Cervical Cancer Screening". Papers presented at the National Black Nurses Convention, Washington, DC.
23.	Price, M.M. (2000, September). "Gynecologic Cancers". Paper presented at the National Astra Zeneca Challenge Conference for Oncology Nurses, Atlanta, GA.
24.	Price, M.M. (2000, November). "Free Community Prostate Cancer Screening: Who Attends and Why." Paper presented at the American Public Health Association Annual Convention, Boston, MA. Published Abstract – Session 4018.0 p. 202.
25.	Price, M.M. (2001, February 16). "Free Community Prostate Cancer Screening: Who Attends and Why.?" Poster Session presented at the Annual School of Public Health Minority Health Conference, University of North Carolina, Chapel Hill, NC.
26.	Price, M.M. (2001, September). "Free Community Prostate Cancer Screening: Who Attends and Why". Paper presented at the Biennial Conference of the Center for Disease Control and Prevention (CDC), Using Science to Build Comprehensive Cancer Programs: A 2001 Odyssey, Atlanta, GA.
27.	Price, M.M. (2001, October). "Lessons Learned From 58 African American Men About Prostate Cancer Screening". Paper presented at the American Public Health Association Annual Convention, Atlanta, GA.
28.	Price, M.M. (2002, June). "Free Community Prostate Cancer Screening in A Small Urban Community". Poster #1063 presented at the 18 th Union of International Cancer Congress, Oslo, Norway. Published Abstract, p. 467.
29.	Price, M.M. (2002, August). "Prostate Cancer Screening – Who Attends and Why". Paper presented at the 12 th International Conference on Cancer Nursing 2002: Making A Difference, London. Published Abstract, p. 28.
30.	Price, M.M. & Robertson, C.N. (2002, September). "Increasing Sustained Participation in Free Mass Prostate Cancer Screening Clinics". Poster presented at the Ninth Annual CapCure Scientific Retreat Program, Washington, D.C.
31.	Price, M.M., Powe, B.D., & Underwood, S.M. (2003, March). Symposium 22 "From Research to Practice to Policy: Designing Research-Based Interventions Focused on Cancer Prevention and Control Among African-Americans". 24 th Annual Meeting and Scientific Sessions for the Society of Behavioral Medicine, Salt Lake City, UT.
32.	Price, M.M. (2003, October). "Increasing Sustained Participation in Free Mass Prostate Cancer Screening Clinics in Durham, North Carolina", Sixth Annual Sigma Theta Tau Research Day Conference: Health Disparities in Underserved Minority Populations from a Global Perspective. Posters presented at North Carolina A&T State University School of Nursing, Greensboro, NC. Published Abstract p.13.
33.	Price, M.M. (2003, October). "International Cancer Care Nurses Attitudes about Cervical Cancer Screening". Poster presented at the Sixth Annual Sigma Theta Tau Research Day Conference: Health Disparities in Underserved Minority Populations from a Global Perspective. North Carolina A&T State University School of Nursing, Greensboro, NC. Published Abstract p.24.
34.	Price, M.M., & Combs, I. (2003, November 7-9). "How to Use Innovative Health Education and Screening Programs to Promote Health in the African American Community: Durham, North Carolina and Omaha, Nebraska". Symposium conducted at the 4 th Annual Institutes of Learning Conference. Oncology Nursing Society, Philadelphia, PA. Published Abstract p. 27-31.
35.	Price, M.M., Jackson, S.A., & Robertson, C.N. (2004, March). "Utility of Longitudinal Prostate Specific Antigen Measures in a Screening Population". Poster presented at the Intercultural Cancer Council and Baylor College of Medicine: 9 th Biennial Symposium on Minorities, The Medically Underserved & Cancer, Washington, DC. Published Abstract p. 37.
36.	Price, M.M. (2004, August). "International Cancer Care Nurses Attitudes About Cervical Cancer Screening". Paper presented at the 13 th International Conference on Cancer Nursing 2004: Celebrating Diversity, Sydney, Australia.
37.	Price, M.M., Jackson, S.A., & Robertson, C.N. (2004, November). "Utility of Longitudinal Prostate Specific Antigen Measures in a Screening Population". Poster presentation at the 132 nd Annual Convention of the American Public Health Association, Washington, DC. Published Abstract p. 37.
38.	Price, M.M. (2005, June). "Partnering Mentoring and Education in Prostate Cancer Control", Cancer Prevention and Detection Dissemination Colloquium, invited. Paper presented as outcome of the NCI and Oncology Nursing Society grant collaboration, Chicago, IL.

39.	Price, M.M. , Robertson, C.N. & Jackson, S.A., (2006, March). "Longitudinal Variation in Prostate-Specific Antigen Levels in a Screening Population". Poster presentation at the 70 th Annual Meeting of the Southeastern Section, American Urological Association, Inc, Rio Grande, Puerto Rico, Published Abstract p. 110.
40.	Price, M.M. , Robertson, C.N. & Jackson, S.A., (2006, March). "Longitudinal Variation in Prostate-Specific Antigen Levels in a Screening Population". Poster presented at the Duke University Medical Center Comprehensive Cancer Center Annual Meeting, Durham, NC. Published Abstract p. 137.
41.	Price, M.M. (2006, March). "Intergenerational Influences on Cervical Cancer Screening in African American Women in Eastern North Carolina". Poster presentation, Duke University Medical Center Comprehensive Cancer Center Annual Meeting, Durham, NC. Published Abstract p. 138.
42.	Price, M.M. & Robertson, C.N. (2006, March). "Increasing Sustained Participation in Free Mass Prostate Cancer Screening Clinics". Poster presentation, Duke University Medical Center Comprehensive Cancer Center Annual Meeting, Durham, NC. Published Abstract p. 139.
43.	Echols, P. & Price, M.M. (2006, April). "The Association of Race on Prostatic Specific Antigen (PSA) Velocity and PSA Doubling Time Prior and Post Radical Prostatectomy". Paper presented at the Intercultural Cancer Council-10 th Biennial Symposium on Minorities, the Medically Underserved and Cancer, Baylor College of Medicine-Houston, TX, held in Washington, DC.
44.	Price, M.M. (2006, June). "Prostate Cancer Screening: Coming to Terms with Controversies". Paper presented at the American Academy of Nurse Practitioners, 21 st National Conference, Dallas, TX.
45.	Price, M.M. (2007, June). "Latest Developments in HPV-related diseases and Cervical Cancer". Paper presented at the American Academy of Nurse Practitioners, 22 nd National Conference, Indianapolis, IN.
46.	Price, M.M. (2007, June). "Prostate Cancer Screening: What Will We Tell Our Patients?" Paper presented at the American Academy of Nurse Practitioners, 22 nd National Conference, Indianapolis, IN.
47.	Bryan, K.A.N., Florian, S.R., Williams, R., Price, M. , Sun, L., and Moul, J.W. (2008, March). "Independent predictors for PSA recurrence after radical prostatectomy: Gleason score 3+4 versus 4+3 and percent tumor involvement". Paper presented at the Southeastern Section American Urological Association 72 nd Annual Meeting, San Diego, CA.
48.	Bannister, M., Mouraviev, V., Price, M. , Mayes, J., Jackson, S., Tyson, D., Wilson, A., and Polascik, T. (2008, March). "ProstaScint: What Will We Tell Our Patients?" Duke University Medical Center Annual Cancer Center Symposium, Durham, NC. Abstract page 74.
49.	Schroek, F.R., Krupski, T. L., Sun, L., Albala, D. M. . Price, M.M. , Polascik, T. J., Robertson, C.N., Tewari, A. K., and Moul, J.W. (2008, March). "Predictors for satisfaction and regret after three different types of radical prostatectomy". Poster presentation, Duke University Medical Center Annual Cancer Symposium, March 12, 2008.
50.	Tolbert-Warren, C., Buschemeyer, C., Klink, J., Mavropoulos, J., Banež, L., Jaychadran, J., Johnson, T., Poulton, S., Hursting, S., Price, M. , and Freedland, S. (2008, March). "Effect of Intermittent Caloric Restriction on Prostate Cancer Growth and Survival in Mice". Duke University Medical Center Annual Cancer Center Symposium, Durham, NC. Abstract page 62.
51.	Jackson, S.A., Price, M. M. , Robertson, C.N, and Smith, R. (2008, April). "Predictors of Sustained Participation in Prostate Cancer Screening Programs", Intercultural Cancer Conference, Baylor University, held in Washington, DC.
52.	Williams, R., Schroek, F.R., Bryan, K.A. N., Price, M. , Sun, L., and Moul, J.W. (2008, April). "Clinical and Pathological Variables: Predictors of PSA Recurrence after Radical Prostatectomy". Intercultural Cancer Conference, Baylor University, held in Washington, DC.
53.	Koontz, B. F., Wright, T., Price, M. , Polascik, T. J., Mayes, J. M., Wong, T. Z., Madden, J., & Mouraviev, V. (2008, May). "Indium Capromab Pendetide Scintigraphic Imaging prior to Surgical Management of Prostate Cancer". Poster presentation, American Urological Association Annual Meeting, Orlando, Fl. May 17-22, 2008. Tracking Number: 08-AB-95342-AUA.
54.	Price, M. , "Human Papillomavirus (HPV) And HPV Vaccines: A Global Update. (2008, August). International Conference on Cancer Nursing, The Suntec Singapore International Convention & Exhibition Centre Singapore. Oral abstract #0-022.
55.	Terry, J., Polascik, T., Mouraviev, V., & Price, M. (2008, November). The Complication Rate of Third Generation Cryosurgical Ablation of the Prostate. Paper presented at the Joint Meeting of the 19 th Annual Argonne Symposium for Undergraduates in Science, Engineering and Mathematics. Computer Information

	Science & Engineering (Cise) Education, Stakeholder's Summit and the Central States Universities Incorporated (Csui). Argonne National Laboratory Aps Conference Center, Argonne, IL. Oral abstract # 124.
56.	Williams, R., Schroeck, F.R., Bryan, KA. N., Price, M. (2008, December). Sun, L., and Moul, J.W. "Clinical and Pathological Variables: Predictors of PSA Recurrence after Radical Prostatectomy". Paper presented at the 9 th Annual Surgical Urologic Oncology Meeting, Natcher Conference Center, National Institutes of Health, Bethesda.
57.	Price, M. "Issues and Controversies in Prostate Screening". (2009, March). Invited paper for the NCCN (National Comprehensive Cancer Network) 14 th Annual Conference - Clinical Practice Guidelines & Quality Cancer Care™. Hollywood, Florida.

c. Editorials, position, and background papers: n/a

Consultant appointments: (Include US government, state, private organizations, etc.)

Healthy Start Foundation of North Carolina through the Sheps Center, University of North Carolina. Technical Assistance for grantee workshops for STD prevention project planning for five \$250,000 grants aimed at infant mortality prevention. Greenville, Hickory, and Sanford, March 2000.

Committee for Professional Education, State of California Department of Health Services, Cancer Detection Section for Cervical Cancer, Sacramento, C.A. (meetings held in Los Angeles). Developed a Professional Training Resource Manual for Cervical Cancer and HPV Patient Management. March-May, 2000.

Adolescent Pregnancy Prevention Program. North Carolina General Assembly through the Commission for Health Services, NC. Department of Health and Human Services. Annual grants selection 1988-2002.

Professional awards and special recognitions:

1993	Great 100 Award For Nursing Excellence In North Carolina for Outstanding Contributions to the Profession of Nursing
1995-1996	Albert Schweitzer Fellowship
1995-1997	Lineberger Comprehensive Cancer Center, University of North Carolina, Pre-Doctoral Fellowship
1995	American Nurses Association Ethnic Minority Fellowship, accepted without funding
1996	Alumni Student Award, UNC School of Public Health, awarded at the UNC School of Public Health Annual Alumni Conference
1997	Community Health Nurse of the Year, North Carolina Nurses Association
2002	Fellow, American Academy of Nursing
2005	American Academy of Nurse Practitioners State Award for Excellence
2007	Fellow, American Academy of Nurse Practitioners

Organization	Office held and/or Committee Assignment	Dates
Union of International Cancer Congress Nursing Committee, Geneva, Switzerland. Congress, Oslo, Norway	International: Member	2002-2003
International Society of Nurses in Cancer Care (ISNCC)	Member	2002-2004
American Public Health Association	National: Member	1974-present
American Nurses Association	Member	1974-present
National Black Nurses Association (local chapter: Central Carolina Black Nurses Association)	Member	1978-2004
American Social Health Association, RTP, NC, National Cervical Cancer and Human Papilloma Virus Project	Member Scientific Advisory Board Member	1998-2004
Oncology Nursing Society	Member	1995-present
ONS National Challenge Conference, Conference held in Atlanta, September	10 member committee from across the U.S. charged with planning a community outreach	January-August 2000

Organization	Office held and/or Committee Assignment	Dates
14-17, 2000	course on cancer screening and detection for 300 oncology nurses	
Invitational for Best 100 Oncology Nurse Community Outreach Cancer Prevention and Early Detection Programs, held in Washington, D.C., April 20, 2002	Committee Member for participant follow up and planning a reunion luncheon and poster session	January – April 2002
National Association of Nurse Practitioner Faculties (NONPF).	Elected to the Board of Directors Member Member, Clinical Doctorate Task Force Chair, subcommittee on Faculty Qualifications, Faculty Development, and Student Admissions Criteria	2009 1997-present 2006-2007
The Susan G. Komen for the Cure (National Breast Cancer Foundation)	Member, African American National Advisory Council	2005-present
Governor's 12 member Commission for Health Service (Public Health Commission), Raleigh.	State: Member, the Public Health Commission writes the rules for all legislation passed by the North Carolina General Assembly including environmental and personal health legislation, immunization laws, restaurant and lodging grading standards, childcare facility, food establishment grading standards, HIV, smallpox, other communicable disease control.	1994; serving 4 th term; Gubernatorial appointee
North Carolina Health and Human Services, Department of Health, Breast and Cervical Cancer Assurance Committee	Chair, Evaluation and improvement of cancer screening services (clinical, laboratory, and radiological) for women in private and public sector clinics	1995-1997
The Albert Schweitzer Foundation	Member, Board of Advisors and Fellowship selection subcommittee. The Foundation provides paid fellowships for community service learning projects conducted by medical, dental, nursing, social work, veterinarian, and law graduate and professional students across North Carolina universities with major medical centers.	2000-present
Old North State Medical Society, Raleigh-Durham Chapter	Member	2001-2002
Advisory Board, University of North Carolina School of Public Health, Department of Maternal and Child Health	Member	2003
North Carolina Nurses Association (formerly District Eleven)	Member Secretary for Triangle Region; Commission on Standards and Practice	1975-present 1985-1987 2001-2003
“	Member At Large Council of Primary Care Nurse Practitioners	1991-1993
“	Participant, North Carolina Nurses Association Leadership Day	January 2000
“	Participant, Awards Selection Committee for Outstanding Nursing Leadership and Service	January 2000-2001
University of North Carolina School of	Member, Advisory Board	February 2003

Organization	Office held and/or Committee Assignment	Dates
Public Health, Department of Maternal and Child Health, participated in review of candidates for department chair; annual board meetings		
U.S. Army Department of Defense	IMPACT Technical Committee to plan the first national Prostate Cancer Research Conference	2006-2007
Piedmont Health Care, Inc. Federally funded primary care centers in three rural North Carolina counties	<u>Local:</u> Member, Board of Directors	1986-1987
Chatham County Board of Health	Chair Board Member	1992-1994 1989-2000
Research Triangle Clintrials Independent Review Board, Research Triangle Park, NC.	Charter Member	1993-1997
Copernicus Group Independent (International) Review Board, Inc. Cary, NC	Member	2001-2004
Orange-Chatham-Person Developmental Disabilities and Mental Health Authority Mental Health Board	Member, official certifier for Board proceedings	2001-2004, County Commissioners Appointee
Carolina Meadows Retirement Community, a 700 resident continuing care retirement community	Executive Board and Health Committee member	2004-2008

Editorial Boards: N/A

Review Panels:

U.S. Army Department of Defense, Integration Panel for Prostate Cancer. Ad hoc panel member to determine the funding level for scored grant proposals for prostate cancer scientific research, 2002, 2003, & 2007.

Continuing Education Courses:

Faculty, Oncology Nursing Society Three-Day National Institutes on Cancer Prevention and Detection in African Americans, Funded by the National Institutes of Health National Cancer Institute, "Cervical Cancer", 30-40 participants per Institute

Pittsburgh, PA, June 1990
Lexington, KY, April 1993
Seattle, WA, October 1993
Philadelphia, PA, December 1993
Philadelphia, PA, March 1995
Miami, FL, April, 1995
Chicago, IL, August 1996
Milwaukee, WI, June 1998
Milwaukee, WI, July 1998
Milwaukee, WI, August 1998
Milwaukee, WI, September 1999
Atlanta, GA, September 2000
Washington, DC, June 2001
Miami, FL, August 2001
Miami, FL, March 2002
Miami, FL, June 2002
Chicago, IL, January 2003

Miami, FL, February 2004
Miami, FL, May 2004
Baton Rouge, LA, October 2004
Atlanta, GA, February 2005

Areas of research interests (basic and applied) - list:

Health disparities research for prostate cancer and cervical cancer

External support - gifts, grants, and contracts:

PRESENT—CURRENTLY ACTIVE

Project Number:	Status on Grant: PI	Approved Project Period: 02/01/2007-08/31/2010	% Effort: 15
PI: Marva Price			
Source: U. S. Department of Defense		Annual Direct Costs: \$185,000	
Title of Project: Collaboration Around Research and Education (CARE) in Prostate Cancer			
Project Goal: The program seeks to provide 12 students from Bennett College for Women, Greensboro, NC, a historically black women's college/university, with mentored research experience over three years.			

Project Number:	Status on Grant: Consultant	Approved Project Period: 6/1/2008-6/30/2009	% Effort: 0
PI: (Consultant)			
Source: U. S. Department of Defense		Annual Direct Costs: \$175,531	
Title of Project: Training of Prostate Cancer Imaging: A Collaborative Summer Program for Undergraduates			
Project Goal: The program seeks to provide students from Howard University, Washington, DC., with mentored research experiences in prostate cancer.			

PAST:

Project Number:	Status on Grant PI	Approved Project Period: 1/15/2005- 8/14/2008	% Effort: 20
PI: Marva Price			
Source: U. S. Department of Defense		Annual Direct Costs: Annual Direct Costs: \$185,000	
Title of Project: Partnering Research Involving Mentoring and Education (PRIME) in Prostate Cancer			
Project Goal: Partnering Research Involving Mentoring and Education (PRIME) in Prostate Cancer Training Grant with North Carolina Central University to provide beginning prostate cancer education to 12 undergraduate nursing students over three years.			
Project Number:	Status on Grant PI	Approved Project Period: 2002- 2006	% Effort: 47%
PI: Marva Price			

Source: U. S. Department of Defense		Annual Direct Costs: \$406,421.00	
Title of Project: Increasing Sustained Participation in Free Mass Prostate Cancer Screening Clinics			
Project Goal: To increase prostate cancer screening in free community-based clinics among all ethnic groups but with focused recruitment among African American men			
Project Number:	Status on Grant PI	Approved Project Period: June 2002-June 2003	% Effort: --
PI: Marva Price			
Source: Source: U. S. Department of Defense		Annual Direct Costs: \$500 District Eleven, North Carolina Nurses Association	
Title of Project: Cervical Cancer Screening, International Nurses Survey			
Project Goal: To assess attitudes and practices for cervical Cancer Screening among International Nurses in Cancer Care.			
Surveys conducted at the UICC Congress, Oslo, Norway, June-July 2002 & the International Nurses in Cancer Care, London, August-September 2002			
Project Number:	Status on Grant PI	Approved Project Period: 2000-2001	% Effort: 30%
PI: Marva Price			
Source: U.S. Department of Defense		Annual Direct Costs: \$74,984	
Title of Project: Using a Tracking System to Improve Prostate Cancer Screening Follow-up in a Small Urban			
Project Goal: to develop a tracking system for men who volunteer for free community-based prostate cancer screening; to assess their knowledge base about prostate cancer, and lifestyle habits for prostate preventive health			
Project Number:	Status on Grant PI	Approved Project Period: October 1997-98	% Effort: 25%
PI: Marva Price			
Source: Avon-NABCO, Inc		Annual Direct Costs: \$75,000 (\$5,000 match by Carson Products, Savannah)	
Title of Project: Breast Cancer Access Grant for Nurse Practitioners in Nine-County Area in Southeastern North Carolina			
Project Goal: Breast Cancer education project for family nurse practitioners in southeastern counties of North Carolina to increase their knowledge base and how to provide community outreach to increase breast cancer screening rates			

Project Number:	Status on Grant PI	Approved Project Period: 1995-1998	% Effort: 45%
PI: Marva Price			
Source: NIH NCI		Annual Direct Costs: \$40,000	
Title of Project: (Pre-doctoral Fellow), NCI sponsored Cancer Control Education Research Program (CCEP) University of North Carolina, Lineberger Comprehensive Cancer Center, Training Grant –CA64060			
Project Goal: To determine intergenerational influences on cervical cancer screening Dissertation Research			
Project Number:	Status on Grant PI	Approved Project Period: 1994-1995	% Effort: -
PI: Marva Price			
Source: Association of School of Public Health and The Association of Teachers of Preventive Medicine, National Center for Infectious Disease, Division of HIV/AIDS, Surveillance Branch, CDC, Atlanta, GA		Annual Direct Costs: \$23,000	
Title of Project: Protocol development for resource assessment of HIV+ pregnant women’s access and use of AZT and other social and medical resources			
Project Goal: To determine use of antiretroviral medication during pregnancy to reduce HIV vertical transmission to infants for infants treated for HIV at Duke University Medical Center and the University of North Carolina Hospitals			
Project Number:	Status on Grant PI	Approved Project Period: January-April 2001	% Effort: --
Marva Price			
Source: Oncology Nursing Society, Pittsburgh, PA		Annual Direct Costs: Flat amount \$2,000	
Title of Project: Community Education Workshops: Taking care of #2: Colon Cancer Prevention and Detection			
Project Goal: To provide colon cancer education and models for making behavior/diet changes			

Clinical activity - type of practice and estimate of time commitment:

Past:

Family Nurse Practitioner, Duke University Medical Center Department of Obstetrics and Gynecology and Division of Gyn Oncology, Durham, NC. Full-time providing specialty care to female patients needing comprehensive gynecology care; and cervical, ovarian, and uterine oncology disease screening and clinical management. 1991-1994.

Family Nurse Practitioner, Duke University Medical Center Department of Obstetrics and Gynecology, Durham, NC, for the Lincoln Community Health Center, Durham, NC, Prenatal Clinic, 1999-2006. Rotated call with private community obstetricians up to four times a month in evening and weekend large comprehensive inner city health center. Time commitment: Rotation schedule - Tuesdays 6-9 pm, Saturdays 8 am -1 pm.

Current:

Family Nurse Practitioner, Duke University Medical Center Department of Obstetrics and Gynecology, Durham, NC, for Durham County Health Department – PRN back up for Family Planning Clinic, up to two half-day sessions a week (up to 8 hours/week), 2007-present.

Participation in academic and administrative activities of the University and Medical Center:

Duke School of Nursing (DUSON)	
Activities and/or Committee Assignments	Dates
DUSON Faculty Governance Committee	2002-present
Member, Dean's Committee on the Black Faculty Initiative	1997-1998
Member, Ad Hoc Committee, APT Guidelines for Non-Tenure Track Faculty	1997-2000
Chair, DUSON Student Recruitment Committee	Chair 1998-2000.
Member	1996 – 2000
Acting Program Director, Oncology Nursing Curriculum	Fall 1999 to August 2000
Chair, Oncology Program Director Search. Planned recruitment activities including advertisements, visitation schedules, and interviews for faculty candidate.	1998-2000 1996 – 2000 2002 to 2003
Chair, Clinical Site Placement Appeals Committee	2000-2001
Member, Ad Hoc Committee, Martin Luther King Celebration, Duke University School of Nursing	2001-2002
DUSON Curriculum Committee	2001-2002
DUSON APT Peer Review Committee	2002-2004
MSN Family Nurse Practitioner (FNP) Specialty Director Assisted in recruitment and maintained average of 75 FNP students while managing and providing excellence in academic and clinical standards, and administrative activities of the program	May 2002 – October 2007
Ad Hoc Committee, Curriculum committee for course modifications for N442 online cohort	January 2003
DNP Ad Hoc Program Committee	2006-2007
Director, DNP Admissions	2008-present
DNP Program Committee	2008-present
Duke University Medical Center Activities and/or Committee Assignments	
Coordinator, Duke Prostate Center Community-based Free Prostate Cancer Screening Service in four locations: Duke Urology Clinic, Lincoln Community Health Center, Duke Raleigh Cancer Center, and Durham Regional Hospital	1997-present
Faculty Appointment, Appointed to the Duke University Comprehensive Cancer Center, Department of Cancer Control and Prevention The Cancer Center director selects faculty from the Duke University Medical School who are involved in select cancer research for membership appointment at the faculty level	2003-present
Duke University Academic Council	2003-2005
DUMC Research Institutional Review Board (IRB)	2003-present
Appointed to the Duke University Comprehensive Cancer Center, Department of Cancer Control and Prevention, Newsletter Editorial Board	October 2008
First Year Apprentice Program for freshmen students interested in learning about research	January – May 2009

Duke-Durham Partnership Community Grant Initiatives (DHI) Collaborating with the Duke Division of Urology and the Duke Prostate Center, and the Gynecology for Community Prostate and Breast Cancer Prevention, Diagnosis, and Supportive Health Care Proposal writing which led to funding April 2009	Fall 2009- present
Duke University Medical Center Comprehensive Cancer Center Cancer Advisory Board on Health Disparities at Duke	2009-present

Presentations:

Community Presentations (Non-Abstract):

1.	Price, M.M. (1991, May). "Contraception Following Pregnancy Induced Hypertension and other High Risk Medical Conditions. Paper presented at the Perinatal Nurse Conference, Durham County Hospital Corporation, Durham, NC
2.	Price, M.M. (1996, December). "Breast Health: What African American Nurses Want to Know", Luncheon Keynote presented for the Central Carolina Black Nurses Council, Inc., Durham, NC
3.	Price, M.M. (1997, May). "What Your Mother Needs to Know about Breast Health. Paper presented at the 9 th Annual National Black Graduate Student Conference, Research Triangle Park, NC.
4.	Price, M.M. (1997, October). "Breast Health: What African American Women Need to Know", Luncheon Keynote presented for the Community Breast Cancer Awareness Seminar. Delta Sigma Theta Chapel Hill Alumnae Chapter, Inc, Chapel Hill, NC.
5.	Price, M.M. (2000, October). "Breast Self-Examination", Luncheon Keynote at the Community Breast Cancer Awareness Seminar. Delta Sigma Theta Chapel Hill Alumnae Chapter, Inc., Chapel Hill, NC.
6.	Price, M.M. (2001, March). "Nutrition and Colorectal Cancer Screening", Seminar presented for Farrington Village Cares Group, Pittsboro, NC. Cosponsor, Oncology Nursing Society, Pittsburgh, PA.
7.	Price, M.M. (2001, April). "Nutrition and Colorectal Cancer Screening". Seminar presented for the Corinth AMEZ Church, Siler City, NC. Cosponsor, Oncology Nursing Society, Pittsburgh, PA.
8.	Price, M.M. (2003, June). "Prostate Health". Presentation for Ebenezer Baptist Church, Durham, NC.
9.	Price, M.M. (2003, March). "Prostate Health". Presentation for Peace Missionary Baptist Church, Durham, NC.
10.	Price, M.M. (2004, October). "Prostate Health". Presentation for Mt. Zoar Baptist Church, Durham, NC.
11.	Price, M.M. (2005, March). "Prostate Health", Presentation for the Prostate Cancer Support Group. Lincoln Community Health Center, Durham, NC.
12.	Price, M.M. (2006, March; 2007, June). "Prostate Health". Presentation for Men's Health Group. St. Mark AME Church, Durham, NC.
13.	Price, M.M. (2009, April 4). "Feeling Fine in 2009 - Heart Disease and Breast Cancer among African American Women". North Carolina and South Carolina Annual District Meeting of the Omega Psi Phi Fraternity Wives. Research Triangle Park, NC.

Abstracts

001

Shoteria M. Pearson, Junior, Biology major

Hometown: Baltimore, MD

Research Mentor: Lionel Banéz, MD, the Freedland Group, and Stephen J. Freedland, MD, Associate Professor, Division of Urologic Surgery, Dept of Surgery, Duke Prostate Center

Does Alcohol Consumption Increase the Risk for Being Diagnosed with Prostate Cancer?

Objectives: The study objective was to determine whether alcohol consumption was associated with increased risk for being diagnosed with prostate cancer in a multi-racial cohort of men undergoing prostate biopsy in an equal-access medical center and to determine whether this association varies by race.

Methods: Within this study, detailed information on alcohol intake along with demographic, anthropometric, and clinical data within the year before biopsy was collected from 333 male participants from the Durham VA Medical Center from 2007 to 2009. Chi-squared test, ranksum test and logistic regression were used to determine the relationship between alcohol intake and risk for positive results on prostate biopsy.

Results: Overall, there was a statistically significant positive association between alcohol intake and the risk for prostate cancer ($p=0.04$). When stratified by race, alcohol intake was associated with increased prostate cancer risk among African American men ($p=0.03$) but not among non-African-American men ($p=0.31$).

Conclusions: In a multi-ethnic cohort of men undergoing prostate biopsy, alcohol consumption was associated with increased risk for prostate cancer in African-Americans. If confirmed in other datasets, steps to increase public awareness of the possible negative effects of alcohol intake on prostate cancer must be taken.

002

Taliah F. Glenn, Senior, Biology major

Hometown: Newark, NJ

Research Mentors: Daniel M. Moreira, MD, and Jodi Antonelli, MD, the Freedland Group, and Stephen J. Freedland, MD, Associate Professor, Division of Urologic Surgery, Dept of Surgery, Duke Prostate Center

The Effect of Smoking History on Time from Surgery to Biochemical Recurrence in Patients with Prostate Cancer treated with Radical Prostatectomy

Objectives: Cigarette smoking has been associated with several cancers. Prostate cancer incidence and mortality have been linked to smoking history. However, the effect of smoking in disease recurrence after primary treatment has not been evaluated. Therefore, we sought to

determine the association between smoking history and the time from surgery to biochemical recurrence in patients with prostate cancer treated with radical prostatectomy.

Methods: Retrospective cohort study of 777 men undergoing radical prostatectomy from 3 different VA medical centers between 1998-2008. Follow-up was conducted by PSA tests and clinical visits. Comparisons of baseline patients' characteristics were done with chi-square and Kruskal-Wallis tests. We also analyzed time to biochemical recurrence after surgery with Kaplan-Meier plot and rank-sum test.

Results: Of 777 men, 47% were from Durham, 43% were from West LA, and 10% were from Palo Alto. The prevalence of smoking at surgery was 34%. Overall, nonsmokers were older, had lower PSA levels and higher body-mass index at the time of surgery (all $P < 0.05$). Gleason score, prostate weight, percentage of positive surgical margins, extracapsular extension and seminal vesicle invasion were similar between smokers and nonsmokers. Smokers were more likely to develop biochemical recurrence; however, the difference did not reach statistical significance ($HR = 1.14$; $P = 0.36$).

Conclusions: Although previous studies showed prostate cancer is potentially associated to smoking history, we found that, after radical prostatectomy, the risk of biochemical recurrence is statistically similar between smokers and nonsmokers. Future studies are necessary to establish the role of smoking in prostate cancer.

003

Tonisha Coburn, Junior, Biology major

Hometown: Turkey

Research Mentor: Stephen J. Freedland, MD,

Associate Professor, Division of Urologic Surgery, Dept of Surgery, Duke Prostate Center, and Jean-Alfred Thomas, MD, the Freedland Group

The Differential Effects of Carbohydrates. Calories upon Prostate Cancer Tumor Growth in a Xenograft Murine Model

Background: Studies have shown dietary restriction to be an effective means of delaying prostate tumor growth and progression. Indeed, both caloric and carbohydrate restriction have been shown to be anticancer in their effects. However, to date no studies have compared or contrasted the two dietary interventions to each other.

Objective: We sought to examine the differential effects of caloric versus carbohydrate restriction on prostate cancer. Our primary endpoints were tumor volume and mouse survival.

Methods: One hundred six week-old severe combined immunodeficient male (SCID) mice were subcutaneously implanted with LAPC-4. Mice were fed one of four diets: 1) Western Ad Libitum, 2) Western calorically restricted (WCR), 3) No Carbohydrate Ketogenic diet ad libitum (NCKD), and 4) No Carbohydrate Ketogenic Diet calorically restricted (NCKD CR). Calorically restricted arms received 25% less calories than their reference ad libitum diet. Mice body weights and tumor volumes were measured twice weekly. Mice were sacrificed

when tumors reached 1000mm³.

Results: By day 50, mice fed WCR, NCKD, and NCKD CR had a significant 45%, 51% and 63% reduction in tumor volume relative to western diet, respectively (rank-sum; $p \leq 0.001$). Interestingly, NCKD-fed mice demonstrated tumor growth delay despite the suggestion of a 4-5% weight gain relative to Western mice.

There was no significant suggestion that NCKD prolonged mouse survival relative to Western-fed mice (log-rank; $p=0.10$). In addition, there was a trend for decreased risk of mortality in both WCR (HR: 0.41; 95% CI: 0.12-1.40; $p=0.16$) and NCKD (HR: 0.56; 95% CI: 0.29-1.07; $p=0.08$) fed mice.

Conclusion: The data supports previous findings that NCKD may be an effective means to delay prostate tumor growth. In addition, NCKD may negatively impact tumor biology despite weight gain. However, due to power limitations we are unable to show with statistical significance that there is a differential effect between carbohydrate and caloric restriction upon prostate tumor cancer growth.

STUDY PERSONNEL

Marva Price, DrPH, RN, FAAN

Principal Investigator

Duke University Medical Center
School of Nursing

Michael Cotton, PhD, Biologist

Collaborating PI for Bennett
College for Women

Seronda Jackson, PhD, Epidemiologist

Research Consultant

Cheryl Broderick, MS, Chemist

Research Assistant

PI CONTACT INFORMATION

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